

FIG. 2

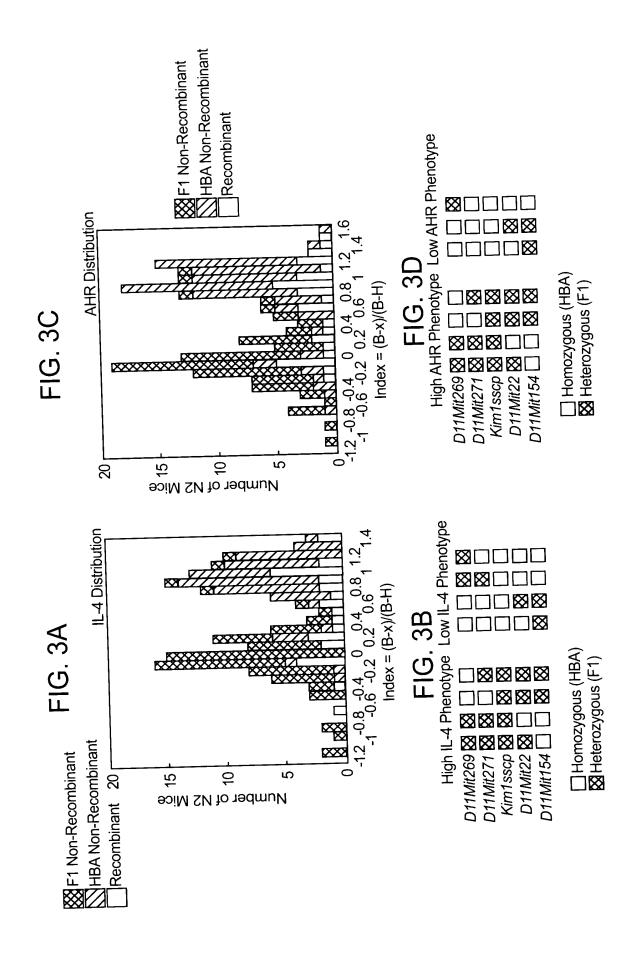
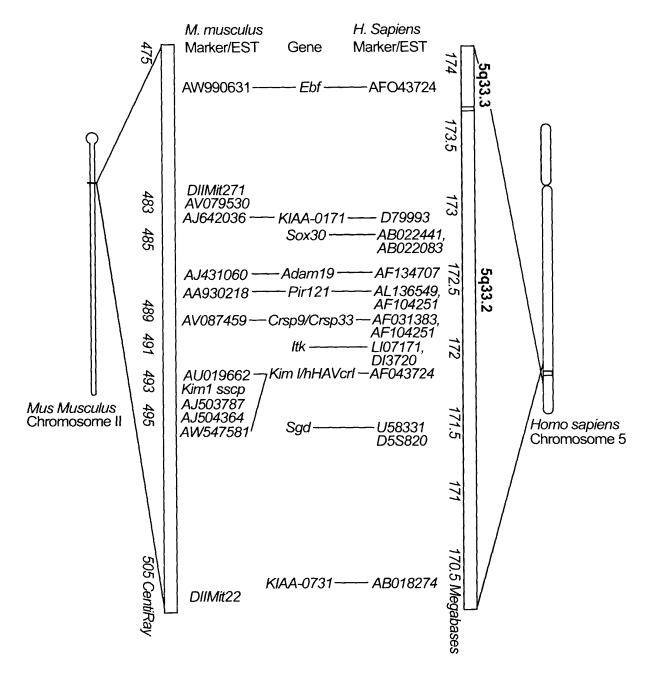


FIG. 4



### FIG 5A

100 100 97 97	149 148 156	180 178 218 297	275 273 317 396	
WOUSE TIM-1 MAQIQVFISGLILLIPGHVDSYVEVKGVVGHPVTLPCTYSTKGITTTCWGRGQCPSGACQNILIWTNGHRVTYQKSBRYNLKGHISEGDVSLTIENSVE Rat KIM-1 MAQLQVFISGLILLIPGSVDSYEWKGVVGHPVTUPCTYSTKGITTTCWGRGQCPYGSCQNILIWTNGYQVTYRSGGRYNLKGRISEGDVSLTIENSVD Human HAVCr-1 M-HRQVVILISLILHIADSVAGGSVKNGGEAGPSVTLPGHKSGAVTSMCWNRGSGSLFTCQNGTWTNGTHVTYRKDTRYKLIGDISRRDVSLTIENTAV MONKEY HAVCr-1 M-HLQVVILLSLILHIADSVADSVNNDGVAGLSITLECKKNGATTSMCWNRGTCSVFSCPDGIVWTNGTHVTYRKETRYKLIGNLSRRDVSLTIFNTAV	Mouse TIM-1 SDSGLYCCRVEIPGWFNDORWIFSLOVRPE	Mouse TIM-1 PTT	Mouse TIM-1 KPERITIECPHETTAEVTGIRSHT-PTDWNGTVTSSGDT-MSNHTEAIRPGKPOKNPTKGFYVGICIAALLLLLINSTVALIFRYTLM Rat KIM-1 KREIITTEKAHETTAEVTETRSHT-PADWNGTVTSSEEA-WNNHTVRIELRKPOKNPTKGFYVGNSVAALLLLLLASTWNTIKYII Human HAVCr-1 EPVALSPSSPOPAETHETHLOGAIRREEHSSPLYSYTLUGNUDTVTESSDGIMNNNOTQLELEHSLLTANTIKKGINGAVCTSVINLALLGVIJAKKKEF- Monkey HAVCr-1 EEVALSPSSPOPAETHEVILLGATRIQPISSELYSYTLUGSDTVJESSDGIMNNOTQLSEEHSPOMNTUEGIRAGOCISVINLAVIGNUTAKKFF-	Mouse TIM-1 <u>KARKSASLSMVAFRVSKIFALONAAVVHSRAEDNIYIVEDRP</u>

## FIG. 5B

Mouse TIM-1 M-NQIQVFISGLILLIPGUVDBYVEVKGAVGHPVTLPCTYSTYR-G-TLTTCWGRGQCBSBACQNTLIWTNGHRVTYQKSSRYNLKGHISEQDVSLTIEN	SVESDSGLYCCRVEIPGMFNDOKVIPSLOVXPEIPTRPTRPTRTRTRTRTRTRTSTRSTHVPTSIRVSTSTPPTSTHTMINKPEPLTFCPHEITAEVT	GIPSHFPTDWIGTVTSSGOTWSNHTERIPPGKPOKNPTKGFYVGICIAR— <u>LITILIINSTVAI</u> TRYLIMKRKSASLSWAFRVSKTERIDNARWHSRRED	NIYIVEDRP
Mouse TIM-2 M-NQIQVFISGLILLIPGAVEBHTAVQGLAGHPVTLPCIYSTHL-GGIVPMCWGLGECRHSYCIRSLIWTNGYTVTHQRNSRYQLKGNLSEGNVSLTIEN	TVVGDGGPYCCVVEIPGAFHF-TVDYMLEVXPEISTSRPTRPTATGRPTTISTRSTHVPTSTRVSTSPTPAHTELTKEBATTEVPPQTTAEVT	ETLPSTBADWHNTVTSSDDFWDDNTEVIPPGKPOKNLNKGFYVGISIAR— <u>LITIMILSTWNI</u> TRYVWKRKSESLSFVAFPISKIGASPKKWERIRGED	
Mouse a2-11 MFSGLTLNCVTLITGLILARSLEDGYRVEVGKNAYLPCSYTLPTSGTLVPMCWGRGFCFWSCTNDELLRTDERNVTYQKSSRYQLKGDINKGDVSLFTHAN	VTLDDHGTYCCRLOFPGLMNDWKKLELKLDIKAAKVIPAQTAHGDSLTASPRTLTTERN	GSETQILVTIHINNGTKISTWADEIK————DSGETIRTAIHIGVGVSAGITIALIIGKWYSCKKWAKSLSLITIANIPPGSIANAGAVRIRSEE	
Mouse TIM-1	Mouse TIM-1	Mouse TIM-1	Mouse TIM-1
Mouse TIM-2	Mouse TIM-2	Mouse TIM-2	Mouse TIM-2
Mouse a2-11	Mouse a2-11	Mouse a2-11	Mouse a2-11

# FIG. 5C

# TIM-1 Variants

	MNQIQVFISGL MNQIQVFISGL	V MNQIQVFISGLILLLPGAVDSYVEVKGVVGHPVTLPCTYSTYRGITTTCWGRGQCPSSACQNTLIWTNGHRVTYQKSSRYNLKGHISEGDVSLTIENSVE MNQIQVFISGLILLLPGTVDSYVEVKGVVGHPVTLPCTYSTYRGITTTCWGRGQCPSSACQNTLIWTNGHRVTYQKSSRYNLKGHISEGDVSLTIENSVE	HBA BALB/c
100	◆ SDSGLYCCRVE SDSGLYCCRVE	◆ SDSGLYCCRVEI PGWFNDQKVTFSLQVKPEI PTRPPRRPTTTRPTATGRPTTI STRSTHVPTSTRVSTSTPPTSTHTWTHKPEPTTFC SDSGLYCCRVEI PGWFNDQKVTFSLQVKPEI PTRPPTRPTTRPTATGRPTTI STRSTHVPTSTRVSTSTPPTSTHTWTHKPEPTTFCPHETTAEVTGIP	HBA BALB/c
200	SHT PTDWNGTV	ptdwngtvtssgdtwsnhteaippgkppgknptkgf <u>yvgiciaalllllusstvait</u> ryilmkrksaslsvvafrvskiealqnaavvhsraedniyi shtptdwngtvtssgdtwsnhteaippgkppknptkgfy <u>vgiciaalllllustvait</u> ryilmkrksaslsvvafrvskiealqnaavvhsraedniyi	HBA BALB/c
300	VEDRP VEDRP	HBA BALB/c	

# A2-11/TIM-3 Variants

V MFSGLTLNCVLLLLQLLLARSLE <mark>NAYVF</mark> EVGKNAYLPCSYTLSTPGALVPMCWGKGFCPWSQCTNELLRTDERNVTYQKSSRYQLKGDLNKGDVSLIIKN MFSGLTLNCVLLLLQLLLARSLE <mark>DGYKVF</mark> VGKNAYLPCSYTLPTSGTLVPMCWGKGFCPWSQCTNELLRTDERNVTYQKSSRYQLKGDLNKGDVSLIIKN	HBA BALB/c
♦ VTLDDHGTYCCRIQFPGLMNDKKLELKLDIKAAKVTPAQTAHGDSTTASPRTLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIR <u>TAIHIGVGV</u> VTLDDHGTYCCRIQFPGLMNDKKLELKLDIKAAKVTPAQTAHGDSTTASPRTLTTERNGSETQTLVTLHNNNGTKISTWADEIKDSGETIR <u>TAIHIGVGV</u>	HBA BALB/c
SAGLTLALI IGVLILKWYSCKKKKLSSLSLITLANLPPGGLANAGAVRIRSEENIYTI EENVYEVENSNEYYCYVNSQQPS SAGLTLALI IGVLILKWYSCKKKKLSSLSLITLANLPPGGLANAGAVRIRSEENIYTI EENVYEVENSNEYYCYVNSQQPS	HBA BALB/C

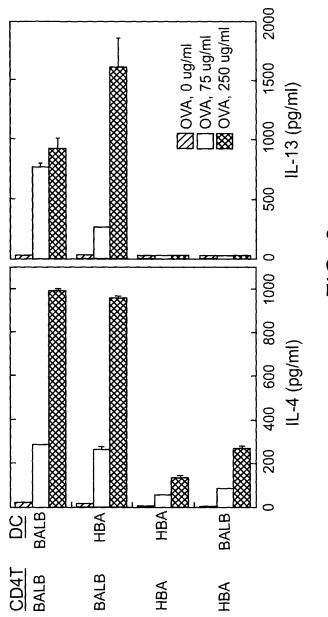


FIG. 6

#### FIG. 7

SignalMWQIQVFISGLILLPGAVES HTAVQGLAGHPVTLPCIYSTHLGG-IVPMCWGLGECRHSYCIRSLIWTNGYTVTHQRNSRYQLKGNISEGNNSLTIENTVVGBGGPYCCVVEIPGAFH-FYDYMLEVKPMWQIQVFISGLILLPGTVDS YVEVKGVVGHPVTTPCTYSTYRGITTTGWRGQCPSSACQNTLIWTNGHRATYQKSSRYMIKGHISEGDVSLTIENSVESDSGLYCCRVEIPGWFNDGKYTFSLQVKPMHPQVVIISLILLHDABSVAG SVKVGGAGFGSTYLTPCTYSTYRGITTTGWRGSCSLFTCQNGIVWTNGTHVYTRKDTRYKLLGDLS RRDVSLTIENTAVSDSGVYCCRVEHRGWFNDMKTTVSLEIVP	MUCIN DOMAINEISTSPPTRPTATGRPTTISTRSTHVPTSTRVSTSTSPTPAHTETYKPEATTFYPDQTTAEVTGIPSHTP	MUCIN Domain HNTVI-SSDDFWDDNTEVIPPQK-PQKNLNK	ERTRCEDQVXIEDTPYPEEES
mTIM-2 hTIM-1/HAVCr-1 mTIM-3 hTIM-3 mTIM-4	mrim-2 mrim-1 hrim-1/ Haver-1 mrim-3 hrim-4 hrim-4	mriw-2 mriw-1 hriw-1/ Haver-1 mriw-3 hriw-3 mriw-4	mTIM-2 mTIM-1 HAVCE-1 mTIM-3 hTIM-3 mTIM-4

Frequency	.05	. 65 . 05 . 05 . 65	.02
MHPQVVILSLILHLADSVAGSVKVGGEAGPSVTLPCHYSGAVTSMCWNRGSCSLFTCQNGIVWTNGTHVTYRKDTRY	KLLGDLSRRDVSLTIENTAVSDSGVYCCRVEHRGWFNDMKITVSLEIVP <u>PKVTTTPIVTTV PHVTTVRTSTTVPTTT</u> 图	TVPITTIVETTMSIERTTIMVETTMTVSTTTSVPTTTSIENTTTVSTFVPEMFLERQNHEPVATSPS  MTTTVE  A  V  A  A	SPQPAETHPTTLQGAIRREPTSSPLYSYTTDGNDTVTESSDGLWNNNQTQLFLEHSLLTANTTKGIYAGVCISVLVL D
NM_012206	NM_012206	NM_012206 1 2 3 4 5	NM_012206

FIG. 9

